

Name: _____

Chap 7 and 8 REVIEW

Study all of your Chapter 7 and 8 Notes, HW, and Review

1. Rotate $\triangle ABC$ whose coordinates are $A(3, 2)$, $B(3, 6)$, $C(6, 1)$ 90° counterclockwise about the origin and then Reflect it over the Y axis.

$A'(\quad, \quad)$

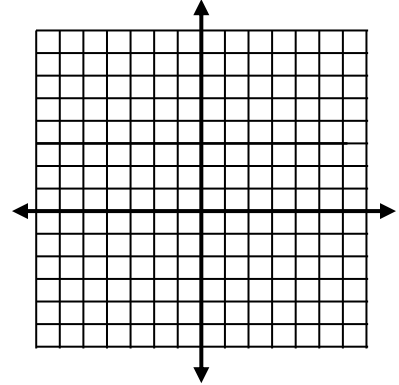
$B'(\quad, \quad)$

$C'(\quad, \quad)$

$A''(\quad, \quad)$

$B''(\quad, \quad)$

$C''(\quad, \quad)$

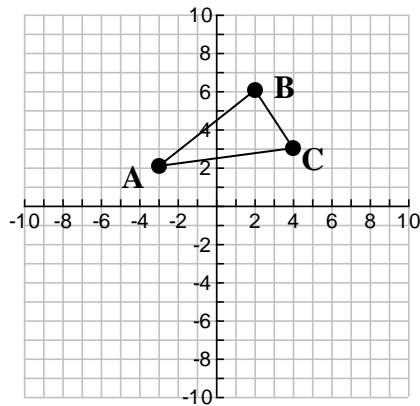


2. Find the image of $\triangle ABC$ after a translation of $\langle 4, -5 \rangle$

$A' =$ _____

$B' =$ _____

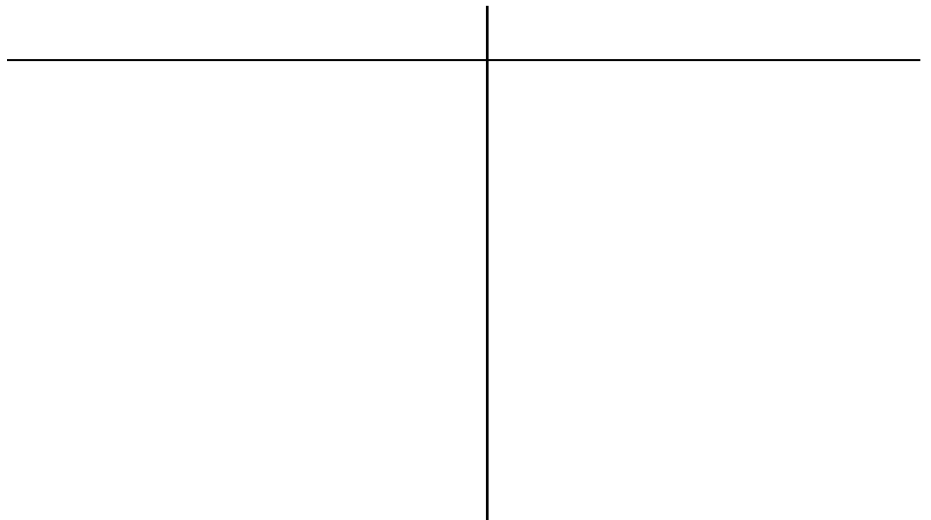
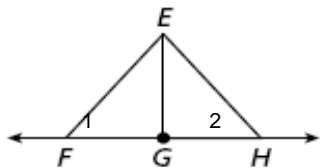
$C' =$ _____



3. Proof

Given: G is the midpoint of \overline{FH} .
 $\overline{EF} \cong \overline{EH}$

Prove: $\angle 1 \cong \angle 2$

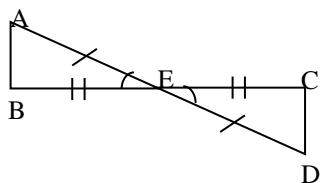


Chap 7 and 8 REVIEW

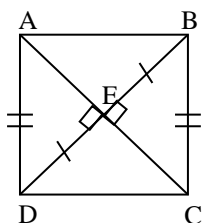
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#4-11. For each pair of triangles, tell which postulate, if any, can be used to prove the triangles congruent.

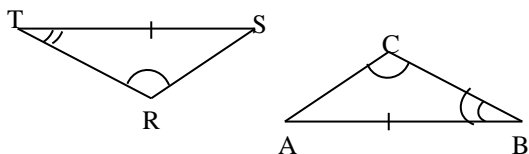
4. $\triangle AEB \cong \triangle DEC$ _____



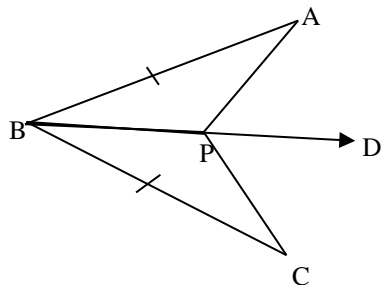
6. $\triangle DEA \cong \triangle BEC$ _____



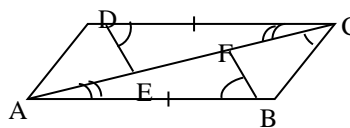
8. $\triangle RTS \cong \triangle CBA$ _____



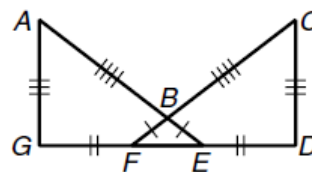
10. $\triangle BAP \cong \triangle BCP$ _____
Given: \overrightarrow{BD} bisects $\angle ABC$



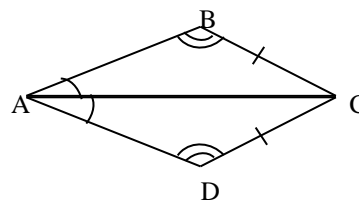
5. $\triangle CDE \cong \triangle ABF$ _____



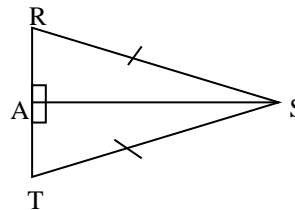
7. $\triangle AGE \cong \triangle CDF$ _____



9. $\triangle ABC \cong \triangle ADC$ _____



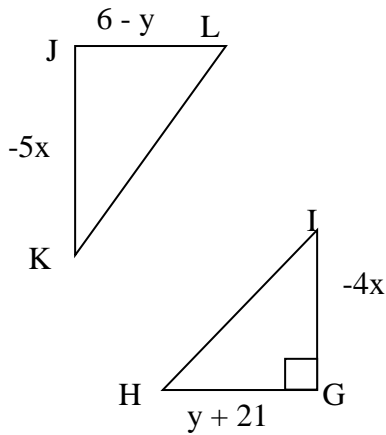
11. $\triangle SAT \cong \triangle SAR$ _____



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12. What is the length of \overline{GH} , if $\triangle GHI \cong \triangle JKL$?



13. If $\triangle CAT \cong \triangle DOG$, $CA = 4x - y$, $CT = 3y - 2$, $DO = 2x + 2$ and $DG = x + 2y$, find the value of x and y .

14. What conjecture can you make if X is the midpoint of \overline{PQ} and $\overline{RX} \perp \overline{PQ}$?
(draw a picture first)

- A. $\triangle RXQ \cong \triangle RPQ$ by ASA congruence.
- B. $\triangle PRX \cong \triangle QRX$ by SAS congruence.
- C. $\triangle RXP \cong \triangle XQP$ by HL congruence.
- D. The triangles are not congruent.

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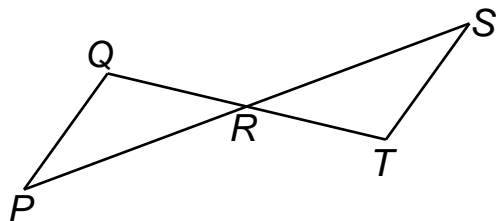
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15. Given: R is the midpoint of \overline{PS}

R is the midpoint of \overline{QT}

$$\overline{PQ} \cong \overline{ST}$$

Prove: $\angle P \cong \angle S$



16. Given: $\overline{AC} \perp \overline{DB}$; $\overline{EF} \perp \overline{DB}$

$$\overline{AC} \cong \overline{EF}; \angle A \cong \angle E$$

Prove: $\angle B \cong \angle D$

